

Title (en)  
MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) REPEATER SYSTEM

Title (de)  
MIMO-REPEATER-SYSTEM

Title (fr)  
SYSTÈME DE RÉPÉTEUR À ENTRÉES ET SORTIES MULTIPLES (MIMO)

Publication  
**EP 3567749 A1 20191113 (EN)**

Application  
**EP 19173174 A 20190507**

Priority  
• US 201862668138 P 20180507  
• US 201916403380 A 20190503

Abstract (en)  
Technology for a diversity bi-directional repeater is disclosed. The diversity bi-directional repeater can include a first interface port, a second interface port, a 1<sup>st</sup>-direction signal amplification and filtering path communicatively coupled between the first interface port and the second interface port, and a 1<sup>st</sup>-direction signal amplification and filtering path communicatively coupled between the first interface port and the second interface port. The diversity bi-directional repeater can further include a third interface port, a fourth interface port, a 2<sup>nd</sup>-direction signal amplification and filtering path communicatively coupled between the third interface port and the fourth interface port, and a 2<sup>nd</sup>-direction signal amplification and filtering path communicatively coupled between the third interface port and the fourth interface port.

IPC 8 full level  
**H04B 7/155** (2006.01)

CPC (source: CN EP US)  
**H04B 7/0413** (2013.01 - CN US); **H04B 7/15** (2013.01 - US); **H04B 7/155** (2013.01 - EP); **H04B 7/15507** (2013.01 - CN); **H04W 16/26** (2013.01 - US); **H04W 52/52** (2013.01 - CN)

Citation (applicant)  
• THIRD GENERATION PARTNERSHIP PROJECT (3GPP) TECHNICAL SPECIFICATION (TS) 36.101, 16 January 2019 (2019-01-16)  
• 3GPP TS 36.104 V16.0.0, January 2019 (2019-01-01)  
• 3GPP TECHNICAL SPECIFICATION (TS) 38.104, 15 January 2019 (2019-01-15)  
• 3GPP TS 38.104 V15.4.0, January 2019 (2019-01-01)

Citation (search report)  
• [X] US 2008299896 A1 20081204 - MOHEBBI BEHZAD B [US]  
• [A] US 2018070323 A1 20180308 - ZHAN HONGTAO [US]  
• [A] US 6125109 A 20000926 - FUERTER MATTHEW P [US]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3567749 A1 20191113**; CA 3042362 A1 20191107; CN 110460365 A 20191115; US 10855363 B2 20201201; US 11394453 B2 20220719; US 11750270 B2 20230905; US 2019341995 A1 20191107; US 2021083756 A1 20210318; US 2022352972 A1 20221103

DOCDB simple family (application)  
**EP 19173174 A 20190507**; CA 3042362 A 20190506; CN 201910376033 A 20190507; US 201916403380 A 20190503; US 202017108987 A 20201201; US 202217867490 A 20220718